PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: MODIANO & ASSOCIATI Attn. Modiano, Guido Via Meravigli, 16 I-20123 Milano

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

ITALI			
	(PCT Rule 44.1)		
	Date of mailing (day/month/year) 06/06/2005		
Applicant's or agent's file reference			
39965/GM/ps	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No.	International filing date		
PCT/EP2005/000870	(day/month/year) 28/01/2005		
Applicant	•		
EMILSIDER MECCANICA S.P.A.			

1. X The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

International Bureau of WIPO, 34 chemin des Colombettes Where? Directly to the 1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

- The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
- 3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Fax: (+31-70) 340-3016

Authorized officer

Josephus Wannee

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220				
39965/GM/ps	ACTION as	well as, where applicable, item 5 below.				
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/EP2005/000870 28/01/2005 01/06/2004						
Applicant						
EMILSIDER MECCANICA S.P.A						
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching a	Authority and is transmitted to the applicant				
-						
This International Search Report consists	a copy of each prior art document cited in	this report				
X It is also accompanied by	a copy of each prior art document cited in	uns report.				
Basis of the report a. With regard to the language, the language in which it was filed, unlike the language.	international search was carried out on the ess otherwise indicated under this item.	basis of the international application in the				
	search was carried out on the basis of a tra	anslation of the international application furnished to				
b. With regard to any nuclee	otide and/or amino acid sequence disclo	sed in the international application, see Box No. I.				
2. Certain claims were fou	nd unsearchable (See Box II).					
3. Unity of invention is lac	king (see Box III).					
4. With regard to the title,						
X the text is approved as su	ibmitted by the applicant.					
the text has been establis	shed by this Authority to read as follows:					
5. With regard to the abstract,						
the text is approved as su	ubmitted by the applicant.					
the text has been establis	shed, according to Rule 38.2(b), by this Aut	hority as it appears in Box No. IV. The applicant				
may, within one month fro	om the date of mailing of this international s	earch report, submit comments to this Authority.				
6. With regard to the drawings,	oublished with the abstract is Figure No	2				
a. the figure of the drawings to be particles as suggested by						
, <u> </u>	ine applicant. is Authority, because the applicant failed to	suggest a figure.				
·	is Authority, because this figure better char					
	e published with the abstract.					
	•					

International application No.

INTERNATIONAL SEARCH REPORT

PCT/EP2005/000870

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A self-orienting caster for pieces of furniture, comprising a pair of wheels (25, 26), which are supported so that they can rotate about a horizontal axis (A) by a supporting body (2), which has a cylindrical recess (4) that has a vertical axis (B) and is open upward and axially offset with respect to said horizontal axis (A), and in which a pivot (40) for the caster (1) is inserted rotatably, the pivot being insertable in a receptable of the piece of furniture in which the caster is to be fitted, further comprising a through seat (5) formed in the body (2), a tubular element (6) that is driven through the seat coaxially to the horizontal axis (A) and has two cylindrical tubular portions (7, 8) that lie on opposite sides of the body (2) in order to rotatably support the wheels (25, 26), means (10-18) for the axial and rotational locking of the tubular element (6) in the seat (5) and means (19-22) for retaining the wheels (25, 26) on the tubular portions (7, 8).

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/000870

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B60B33/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B60B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
Y	US 4 219 904 A (MELARA, FRANCESCANTONIO) 2 September 1980 (1980-09-02) column 2, line 24 - line 37 column 3, line 9 - line 20 figures 1,3	1,2			
Y	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 02, 29 February 1996 (1996-02-29) -& JP 07 257104 A (CHUBU KASEI KK), 9 October 1995 (1995-10-09) abstract; figure 4	1,2			
Α	WO 03/101764 A (DONAKOWSKI, WILLIAM, J) 11 December 2003 (2003-12-11) page 10, Tine 1 - line 8 figure 11	1			

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.		
 Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family 		
Date of the actual completion of the international search	Date of mailing of the international search report		
13 May 2005	06/06/2005		
Name and mailing address of the ISA	Authorized officer		
European Palent Office, P.B. 5818 Palentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Verkerk, E		

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/000870

atecon, o I	citation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
ategory °	Guation of document, with indication, where appropriate, of the relevant passages	riesvani to danni No.
	EP 1 110 757 A (EMILSIDER MECCANICA S.P.A) 27 June 2001 (2001-06-27) abstract; figures 1-4	1,6
	•	
	•	
7		

INTERNATIONAL SEARCH REPORT

Information on patent family members

international Application No
PCT/EP2005/000870

	atent document d in search report		Publication date		Patent family member(s)	Publication date
US	4219904	A	02-09-1980	IT CS DE ES FR GB	1070548 B 205100 B2 2758656 A1 233326 U 2376003 A1 1598707 A	29-03-1985 30-04-1981 13-07-1978 16-03-1978 28-07-1978 23-09-1981
JP	07257104	Α.	09-10-1995	JP	3272861 B2	08-04-2002
WO	03101764	A	11-12-2003	US WO	2002178539 A1 03101764 A2	05-12-2002 11-12-2003
EP	1110757	A	27-06-2001	IT AT CA CZ DE EP US	B0990711 A1 280678 T 2329500 A1 20004843 A3 60015281 D1 1110757 A2 2001039693 A1	25-06-2001 15-11-2004 24-06-2001 14-11-2001 02-12-2004 27-06-2001 15-11-2001

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2005/000870

	Box	k No.	I Basis of the opinion					
1.	With regard to the language , this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.							
		lang	opinion has been established on the basis of a translation from the original language into the following uage , which is the language of a translation furnished for the purposes of international search ler Rules 12.3 and 23.1(b)).					
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:							
	a. type of material:							
	[⊐ a	a sequence listing					
	[⊐ t	able(s) related to the sequence listing					
	b. fo	orma	t of material:					
	[) i	n written format					
	[⊐ iı	n computer readable form					
	c. ti	me o	f filing/furnishing:					
	[⊐ c	contained in the international application as filed.					
	[⊐ f	iled together with the international application in computer readable form.					
	[□ f	urnished subsequently to this Authority for the purposes of search.					
3.		has copi	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional es is identical to that in the application as filed or does not go beyond the application as filed, as ropriate, were furnished.					
4.	Add	dition	al comments:					

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below Priority date (day/month/year) International filing date (day/month/year) International application No. 01.06.2004 PCT/EP2005/000870 28.01.2005 International Patent Classification (IPC) or both national classification and IPC B60B33/00 Applicant EMILSIDER MECCANICA S.P.A. This opinion contains indications relating to the following items: 1. Box No. I Basis of the opinion ☐ Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. III Lack of unity of invention ☐ Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited Certain defects in the international application ☐ Box No. VII Box No. VIII Certain observations on the international application **FURTHER ACTION** 2. If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Authorized Officer Name and mailing address of the ISA:

Verkerk, E

Telephone No. +31 70 340-4344

European Patent Office - P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl

Fax: +31 70 340 - 3016

Re Item V.

1. Reference is made to the following documents:

D1: US 4 219 904 A (MELARA, FRANCESCANTONIO) 2 September 1980 (1980-09-02)

D2: PATENT ABSTRACTS OF JAPAN vol. 1996, no. 02, 29 February 1996 (1996-02-29) -&; JP 07 257104 A (CHUBU KASEI KK), 9 October 1995 (1995-10-09)

2. INDEPENDENT CLAIM 1

- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject matter of claim 1 does not involve an inventive step in the sense of Article 33(3)PCT.
- 2.1.1 Document D1, which is considered to represent the most relevant state of the art to the subject matter of claim 1, discloses column 2, lines 24-40 and in figure 1 and 3 (the references in parentheses applying to this document):

A self-orienting caster for pieces of furniture and the like, comprising a pair of wheels (16), which are supported so that they can rotate about a horizontal axis (A) by a supporting body (1,2), which has a cylindrical recess (3) that has a vertical axis and is open upward and axially offset with respect to said horizontal axis (A), and in which a pivot (4) for the caster is inserted rotatably, said pivot being insertable in a receptacle of the piece of furniture in which the caster is to be fitted, further comprising a through seat (8) formed in said body (2), a tubular element (9) that is driven through said seat (8) coaxially to said horizontal axis (A) and has two cylindrical tubular portions that lie on opposite sides of said body (2) in order to rotatably support said wheels (16), means (19) being provided for retaining said wheels (16) on said tubular portions.

2.1.2 The subject-matter of independent claim 1 differs from the disclosure of D1 in that means are provided for the axial and rotational locking of said tubular element in said seat

- 2.1.3 The problems to be solved by the present invention can therefore be regarded as providing means to secure the tube element in the seat.
- 2.1.4 In view of D2 the solution proposed in claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

The ribs (25,26) and grooves (29,30) described in document D2, figure 4, provide the same advantages as 'the means (10-18)' of claim 1 in the present application. The skilled person would therefore regard it as a normal option to include them in the caster described in document D1 in order to solve the problem posed.

- 2.1.5 Therefore the features disclosed in D1 and D2 would be combined by the skilled person, without exercise of any inventive skills in order to solve the problem posed. The proposed solution in independent claim 1 thus cannot be considered inventive (Article 33(3) PCT).
- 3. Dependent claim 2 does not contain any additional technical features that meet the requirements of the PCT in respect of inventive step, see D1, figure 1.
- 4. The additional technical features of dependent claims 3-14 are neither known from, nor rendered obvious by, the available prior art.
- 4.1 The examiner is of the opinion that a combination of claim 1 and 3 into a new independent claim is the most appropriate choice, as claim 3 specifies the 'means for the axial and rotational locking' mentioned in claim 1.
- 5. The subject-matter of the claims relates to a caster, and is industrially applicable in for instance a piece of furniture.

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-14

No: Claims

Inventive step (IS)

Yes: Claims

3-14

No: Claims

1,2

Industrial applicability (IA)

Yes: Claims

1-14

No: Claims

2. Citations and explanations

see separate sheet